

IN THE CLAIMS

The status of each Claim in the present application is listed below.

Claims 1-10: (Canceled).

11. (New) A thermoplastic elastomer composition, comprising:

(A) a conjugated diene-based polymer obtained by polymerizing a conjugated diene-based compound using a catalyst containing (a) to (d) as main components

(a) a compound containing a rare earth element having an atomic number of 57-31 in the Periodic Table or a compound obtained by reaction of the compound with a Lewis base;

(b) an alumoxane;

(c) an organoaluminum compound corresponding to $AlR^1R^2R^3$, wherein R^1 and R^2 , which may be the same or different, represent a hydrocarbon group having 1 to 10 carbon atoms or a hydrogen atom, and R^3 represents a hydrocarbon group having 1 to 10 carbon atoms, provided that R^3 may be the same as or different from the above R^1 or R^2 ; and

(d) a silicon halide compound and/or a halogenated organosilicon compound;
and

(B) a thermoplastic resin selected from the group consisting of a crystalline polyolefin-based resin and an amorphous polyolefin-based resin.

12. (New) The thermoplastic elastomer composition according to Claim 11, wherein the component (a) is neodymium.

13. (New) The thermoplastic elastomer composition according to Claim 11, wherein the conjugated diene-based compound is 1,3-butadiene.

14. (New) The thermoplastic elastomer composition according to Claim 11, wherein the conjugated diene-based polymer has a 1,4-cis bond content of 90% or more, and a ratio (M_w/M_n) of a weight-average molecular weight (M_w) to a number-average molecular weight (M_n) of 3.5 or less as measured by gel permeation chromatography.

15. (New) The thermoplastic elastomer composition according to Claim 11, wherein the composition is obtained by dynamic heat treatment of the conjugated diene-based polymer (A) and the thermoplastic resin selected from the group consisting of a crystalline polyolefin-based resin and an amorphous polyolefin-based resin (B) under the presence of a crosslinking agent.

16. (New) The thermoplastic elastomer composition according to Claim 11, wherein the conjugated diene-based polymer (A) is from 50 to 95 parts by weight and the thermoplastic resin selected from the group consisting of a crystalline polyolefin-based resin and an amorphous polyolefin-based resin (B) is from 50 to 5 parts by weight, wherein the sum of (A) and (B) is equal to 100 parts by weight

17. (New) The thermoplastic elastomer composition according to Claim 11, wherein the composition further contains a softener and/or a plasticizer in an amount of 200 parts by weight or less, when the total of the conjugated diene-based polymer (A) and the thermoplastic resin selected from the group consisting of a crystalline polyolefin-based resin and an amorphous polyolefin-based resin (B) is taken as 100 parts by weight.

18. (New) A formed article prepared from the thermoplastic elastomer composition according to Claim 11.